

The Hydrogen Fluoride. II. The Association
in the Gas at High Pressures, by W.
Spethhoff, E. U. Franck, 14 pp.
SEIDEL, per, Zeitschrift für Elektro-
chemie, Vol 61, No 8, 1957, pp 993-1000.
SIA TT-65-10199

336,224

Sci
Aug 67

Investigation of Intermolecular Interactions
Through Hydrogen Bonds in Binary Mixtures,
With Boiling Point Maxima (Vapor Pressure
Minima) by Means of Raman Spectra, by G. -H.
Schwab, G. Glatzer, 30 p.

GERMAN, per, Zeit fur Elektrochem 1957,
Vol LXI, No 8, pp 1028-1048.

ADS-82L33G

Sci
Apr 60
Vol III, No 2

113, 618

On Diffusion in Ag-Al Alloys, by
Th. Heumann, et al, 9 pp.
GERMAN, per, Zeitschrift fur Elektrochemie
61, 1957, pp. 1138-1146.
*CFSTI TT 70-58078
AVAILABLE FROM NBS ONLY

Sci/chem
Apr 70

Significance of Pore Diffusion in the Reduction of
Iron Ores, by L. Bogdandy, W. Janke.

GERMAN, per, Z fuer Elektrochemie, Vol LXI, No 9,
1957, pp 1146-1153.

CRL/T. 879

Sci 17-00
Jun 63

Coating (Film) Processes on Zinc Anodes in
Caustic Soda Solution, by R. Landsberg, 16 pp.
GERMAN, per, Zeitschrift Fur Elektrochemie,
No 9, 1957, pp 1162-1168.
ACSI J-4889
FSTC-HT-23-161-68

Sci/Chem
Aug 68

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Investigation of the Oxygen Film on Noble Metal Electrodes. II. Smooth Iridium Electrodes, by M. Breiter, K. Hoffmann, C. A. Knorr, 15 pp.

GERMAN, per, Z fuer Elektrochemie, XXXXX
Vol LXI, No 9, 1957, pp 1168-1176.

SLA 60-16281

Mar 62

The Inner Resistance of Potentiostatic Regulating C Circuits and Examples of the use of a Potentiostat, by M. Breiter, F. G. Hill
GERMAN, per, Z. Elektrochem., Vol 61, 1957,
pp 1177-1183.
AEC ORNL-tr-574

Sci/Electronics
Nov 66

314,309

Measurements of the Impedance of the Phase Boundary
Between Germanium and Electrolyte, by K. Bohnenkamp,
H. J. Engell, N 45 pp.

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1957, pp 1184-1196.

SLA 59-10962

Sci - Chem
Sep 59
Vol 2, No 1

97,279

A Measuring Method for the Determination
of Thermal Conductivity at 1100C.
by K1. Schafer, F. W. Reiterm. v
GERMAN, per, Zeit fur Elektrochemie,
Vol LXI, No 9, 1957, pp 1230-1235.
SLA TT 64-30306

Sci
May 67

3287, 228

<p>Jander, Gerhart and Weis, Josef. MOLTEN ANTIMONY TRIBROMIDE AS AN IONIZING SOLVENT AND THE BEHAVIOR THEREIN OF DISSOLVED SUBSTANCES. I (Geschmolzenes Antimon(III)-bromide als ionisierendes Lösungsmittel und das Verhalten darin gelöster Substanzen. I). [1960] [20]p. 21 refs. Order from SI A m1\$2.40, ph\$3.00 61-10523 Trans. of Zeitschrift für Elektrochemie (West Germany) 1957, v. 61 [no. 10] p. 1275-1283. It is shown that molten antimony tribromide, as regards its properties as a solvent, belongs in the series of the ionizing "water-like" solvents. (Author) (Chemistry--Physical, TT, v. 5, no. 7)</p>	<p>61-10523 1. Antimony bromides-- Solvent properties 2. Title: Molten salts 1. Jander, G. II. Weis, J.</p> <p>148,528</p> <p>Office of Technical Services</p>
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A Contribution to the Interpretation of the
Passivity of Iron, in Particular, of the Flade
Reference Potential, by H. Gehr, E. Lange, 22 p.

GERMAN, per, Zeit Elektrochem, 1957, Vol LXI,
No 10, pp 1291-1301.

AT&T-24L33C
AT&T 628-GJ

Sci
Apr 60
Vol III, No 2

111, 673

Measurement of Transport Coefficients During
Electrolysis of Ag-halide Crystals, by

S. Mennenhof.

GERMAN, per, Zeit. Elektrochem., No 54, 1958,
pp 433-436.

MBS TT 70-59095
Available MBS Only

Sci/Chem
Sept 70

Recent Findings Concerning the Electro-Chemistry of
Nonaqueous Solutions: Conductances and Standard
Potentials, by L. Fischer, G. Winkler, G. Jander,
100 p.

GERMAN, per, Zeit fur Elektrochemie, 1958,
Vol LXXI, No 1, pp 1-28.

SLA 59-17801

Sci
Feb 60
Vol 2, No 9

107049

On the Condensation and Evaporation of Zinc Sulphide
and Cadmium Sulphide in a High Vacuum, by A. Neubaus,
W. Retting, 27 p.

GERMAN, per, Zeit fur Elektrochemie, 1958, Vol LXII,
No 1, pp 33-40.

SLA 59-20373

Sci
Mar 60
Vol 3, No 1

110,886

The Chemical Reactions in Manganese Dioxide Electrodes,
by K. Neuman, W. Fink.

GERMAN, per, % fuer Elektrochemie, Vol LXII, No 2,
1958, pp 114-122.

BAE 856

Sci - Chem

137,366

Jan 61

Concerning the Mechanism of Supersensitization
of Photographic Emulsions. A Contribution to
the Problem of Energy Transfer, I and II., 57 pp.

GERMAN, per, Zeitschrift fuer Elektrochemie,
Vol LXII, No 2, 1958, pp 132-152.

SLA 59-15695

Sci
Dec 59
Vol 2, No 4

103, 107

The Influence of the Substituente R in
Compounds MnR on the Electron Acceptor
Strength of the Metal Mn, by W. Strohmeier,
K. Fritsch, 7 pp.

Chemie, Z Elektrochem, Vol LXII, No 2, 1958,
pp 188-191.

Assoc Tech Sr
887260

Sci - Chem
Apr 59
089, V. I, No 5

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The Rate of Oxidation (Corrosion) of Titanium
in Molten Salts and the Composition of the
Oxidation Products, by M. E. Straumanis, Ch.
Chiou,

GERMAN, per, Z. Elektrochem., Vol LXII, No 2,
1958, pp 201-209.

AT&T 506-GJ

Sci - Chem

Aug 60

123,934

The Mechanism of Ionization of Molecular Chlorine on
a Platinum Electrode, by A. Frumkin, G. Todoradse.
GERMAN, per, Z fuer Elektrochemie, Vol LXII, 1958,
pp 251-256.
NASA TT F-9172

Sci-Phys
Jan 65
U.S. GOVERNMENT ONLY

270,905

The Mechanism of Electrolytic Deposition and Dis-solution of Solid Metals. II. Galvanostatic Processes on Silver Electrodes and the Kinetics of Crystal Growth,
by H. Gerischer.
GERMAN, per, Z fuer Elektrochemie, Vol LXII, 1958,
pp 256-264.
NASA TT F-9190

Sci-M7M
Feb 65
U.S. GOVERNMENT ONLY

~~ZMK~~ 274,612

On the Mechanism of the Electrolytic
Deposition and Solution of Solid Metals,
II. Galvanostatic Transient Processes at
Silver Electrodes and the Kinetics of
Crystal Growth, by Heinz Gerischer, 18pp.
GERMAN, per, Zeitschrift fur Elektrochem.,
Vol 62, No 3, 1958, pp 256-264.
CFSTI TT-64-18599.

322,351

Sci - Chemistry
Mar 67

The Relations Between the Anomalous Freezing
Point Depression and the Mechanical-Elastic
Behavior of Gels, by W. Kuhn, E. Peterli,
H. Majer, 12 pp.

GERMAN, per, Z. fur Elektrochemie,
Vol LXIII, No 3, 1958, pp 296-300.

SLA 60-16799

Sci
Vol IV, No 7
May 62

193, 687

Liquid Anion Exchangers, by U. Schindewolf, 15 pp.

GERMAN, par, Z fuer Elektrochem, Vol LXII, 1958,
pp 335-340.

ABC-EP Tr-254

Sci - Chem
Sep 59

96,715

On Selective Solvation of Ions in Solvent
Mixtures, by H. Strehlow, H. -M Koepf.
GERMAN, per, Zeitschrift fuer Elektrochemie,
Vol 62, No 3, 1958, pp 373-378.
SIA TT-66-10351

Sci-Chem
Sept 66

310,378

Potentiometry on Silver Halide Single Crystals;
Contribution to the Mechanism of Photographic
Development, by R. Matejec, 11 pp.

GERMAN, per, Z Elektrochemie, Vol LXII, No 4,
1958, pp 400-404.

SLA 59-15031

Sci - Chem
Sep 59
Vol 2, No 1

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Form of Developed Silver (A Contribution to the
Elucidation of the Mechanism of Photographic
Development, by E. Klein, 32 pp.

GERMAN, per, Zeit fuer Elektrochemie, Vol LXII,
No 5, 1958, pp 505-519

SLA 59-15032

Sci - Physics
Sep 59
Vol II, No 2

98,635

Relationship Between Raman Scattering, Absorption and
Fluorescence (Resonance Raman Effect, by J. Behringer,
S.

GERMAN, per, Z Elektrochem, Vol LXII, No 5, 1958,
pp 544-557.

ATS 429-CJ

Ski - Chem

Aug 60

123,343

The Effect of Hydrogen Ion Concentration
on the Electrochemical Behavior of Active
Iron in Acid Solutions, The Mechanism of
the Reaction $\text{Fe} \rightleftharpoons \text{Fe}^{++} + 2e$, by K. E. Heusler
10 pp.

GERMAN, per, Z fuer Elektrochemie,
Vol LXII, No 5, 1958, pp 582-587.

ATE-704410

Sci
Vol IV, No 7
Apr 62

192, 664

Experimental Results on Passive Iron, by K. G.
Weil.

GERMAN, per, Z fuer Electrochemie, Vol LXII,
No 6/7, 1958, pp 638-641.

AT&T 7178415
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Sci - Chem

156,541

Jun 61

Thickness and Structure of Passivating Oxide
Layers on Iron, by K. J. Vetter.

GERMAN, per, Z fuer Electrochemie, Vol LXII,
No 6/7, 1958, pp 642-648.

APR 12 1966
ATS 636-QJ

Sci - Chem

156,540

Jun 61

Franck, U. F.
INSTABILITY PHENOMENA IN METALS THAT CAN
BECOME PASSIVE. [1962] 12p.
Order from ATS \$13.75

ATS-00P60G

Trans. of Z[eitschrift für] Elektrochem[ie] (West
Germany) 1958, v. 62, no. 6/7, p. 649-655.

DESCRIPTORS: *Metals, *Passivity, Electrochemistry

(Chemistry--Physical, TT, v. 8, no. 4)

62-17697

I. Franck, U. F.
II. ATS-00P60G
III. Associated Technical
Services, Inc.,
East Orange, N. J.

ATS/979-GT

Office of Technical Services

Investigation of the Passivity of Metals Through
Measurements of the Electrode Impedance at High
Frequencies, by B. N. Kabanov, D. I. Leikis, 6 p.

GERMAN, per, Zeit Elektrochem, 1958, Vol LXII,
No 6/7, pp 660-663.

AT&T-22L330

109, 551

Sci
Mar 60
Vol 2, No 11

The Structure of the Passive Film on Chromium Steels, by M. Prazak, V. Prazak, Vl. Cihal,
10 p.

GERMAN, per, Zeit Elektrochem, 1958, Vol LXII,
No 6/7, pp 739-745.

AT&T-26L330
AT&T-434-43

Sci
Mar 60
Vol 2, No 11

109, 558

The Passivation of Chromium in Dilute Sulfuric Acid, by Th. Heumann, F. W. Dickotter, 7 p.

GERMAN, per, Zeit Elektrochem, 1958, Vol LXII,
No 6/7, pp 745-750.

AB-25L330

Sci
Mar 60
Vol 2, No 11

109,550

The Passivity of Nickel, by K. Schwabe, G. Dietz,
13 p.

GERMAN, per, Zeit Elektrochem, 1958, Vol LXII,
No 6/7, pp 751-759.

ABR-23L33G

Sci
Mar 60
Vol 2, No 11

109,560

Anodic Passivation and Depassivation of Lead in
Sulphuric Acid, by W. Feitknecht. UECI

GERMAN, per, Z Electrochem, Vol LXII, No 6/7,
1958, pp 795-803.

RAB 841

Sci - Chem
Mar 60

111,867

Theory of the Resonance Raman Effect, by J.
Behringer,

GERMAN, per, Z Elektroche, Vol LXII, No 8, 1958,
pp 906-914.

ADS 430-GJ

Sci - Chem

Aug 60

123,344

Jander, G. and Fischer, L.
ZINC DIETHYL AS A SOLVENT. II. CONDUCTIVITY
INVESTIGATIONS (Über Zinkdiethyl als Lösungsmittel.
II. Leitfähigkeitsuntersuchungen). [1960] [15]p.
15 refs.
Order from SLA m/\$2.40, ph/\$3.30 61-10523

Trans. of Zeitschrift für Elektrochemie (West
Germany) 1958, v. 62, p. 971-977.

The conductivity behavior of $n\text{-Bu}_4\text{Ni}$, Li ethyl, ZnI_2
ethyl and AlBr_3 in Zn diethyl solutions was studied in
relation to concentration at 20°C. The course of reac-
tions of ZnI_2 ethyl and AlBr_3 with Li ethyl or AlBr_3 with
 ZnI_2 ethyl was studied conductometrically. The results
corroborate the conclusions drawn in report No. 1. An
evaluation based on material available to date would
assign to Zn diethyl a kind of middle position, corre-
sponding to its solvent properties, between the ionizing
solvents on the one hand and the inert organic solvents
on the other. (Author)
(Chemistry--Physical, TT, v. 5, no. 7)

61-10525

1. Zinc compounds (Organic)--
Solvent properties
2. Zinc compounds (Organic)--
Conductivity
- I. Jander, G.
- II. Fischer, L.
- III. Title: Conductivity...

148, 547

Office of Technical Services

Contribution to the Theory of Alternating Current
Polarography, by Hiroaki Matsuda, 40 pp.

GERMAN, per, Zeitschrift fuer Elektrochemie,
Vol. LXII, 1958, pp 977-989. (9208279)

AEC-UCRL-Tr-932

Sci - Phys

Jun 63

234,305

Klein, E.
THE RELATIONS BETWEEN THE BLACKENING AND
THE SIZE OF THE DEVELOPED UNITS OF SILVER.
[1961] [22]p. 9 refs.
Order from SLA \$2.60

62-14093

Trans. of Zeitschrift für Elektrochemie (West
Germany) 1958, v. 62, no. 9, p. 993-999.

DESCRIPTORS: *Colors, *Silver, Measurement,
*Electron microscopy, Chemical analysis, Colloids,
*Photographic emulsions, Particle size.

(Materials--Photographic, TT, v. 10, no. 11)

62-14093

I. Klein, E.

Office of Technical Services

Separation and the Critical Point in Solid and
Liquid Mixtures, by A. Münster, K. Sege1, 21 pp.

GERMAN, per, Zeit Elektrochemie, Vol LXII, No 10,
1958, pp 1075-1092. 920/230

AEC/NP Tr-977

Sci - Phys

May 63

232,2¹⁴

Measurement of Diffusion in Crystals by Isotope
Exchange with Gases, by R. Haul, D. Just, L. P.
GERMAN, per, Zeit Elektrochemie, 1958, Vol LXII,
No 10, pp 1124-1130.

ABR-07L33C

Sci.
Feb 60
Vol 2, No 12

108248

Effect of Small Amounts of Oxygen on the
Behavior of Metal Electrodes, by R. Ch. Burstein.
GERMAN, per Zeitschrift Fur Elektrochemie,
Vol 62, No 47, 1958, pp 653-660.
HB 6490

EE-Ger
Sci/M&M
May 65

280,701

Briegleb, G. and Czekalla, J.
THE DETERMINATION OF IONIZATION ENERGIES
FROM THE SPECTRA OF ELECTRON TRANSITION
COMPLEXES (Die Bestimmung von Ionisierung-
energien aus den Spektren von Elektronenübergangs-
komplexen). [1960] [18]n. 86 refs.
Order from SLA m\$2.40, ph\$3.30 61-10635

Trans. of Z[eitschrift für] Electrochem[e] (West
Germany) 1959, v. 63 (no. 1) p. 6-12.

The ionization energy of molecules which have elec-
tron donor properties is determinable from the energy
 $h\nu$ of an intermolecular electron band, for example
with trinitro benzene, chloranil, or iodine as acceptor.
This method is applied for the calculation of the ion-
ization energy of condensed aromatic hydrocarbons,
diphenylpolyenes, N-substituted anilines and other
aromatic amines. It is particularly applicable in
cases where the hitherto known experimental pro-
cedures are not suitable. (Author)
(Chemistry--Physical, TT, v. 3, no. 9)

61-10635

1. Organic compounds--
ionization
 2. Molecules--Electron
transitions
- I. Briegleb, G.
 - II. Czekalla, J.

151801

Office of Technical Services

Feitknecht, W.
ON THE OXIDATION OF SOLID HYDROXY COMPOUNDS OF IRON IN AQUEOUS SOLUTIONS.
[1961] 19p. (16 figs. omitted) 45 refs.
Order from SLA \$1.60

62-10363

Trans. of Z[eitschrift fur] Elektrochemie (West Germany), 1959, v. 63 [no. 1] p. 34-43.

DESCRIPTORS: *Iron compounds, *Hydroxides, Solids, *Oxidation, Solutions, Mixtures, X-rays, Electron microscopy, Magnetite, Crystals.

The oxidation of Fe(OH)_2 by O_2 or O_2/N_2 mixtures in both strong and weak alkaline solutions in the presence of Cl^- and SO_4^{2-} ions has been investigated by using X-rays and electron microscopy. On very rapid oxidation, FeOOH (formerly designated β - Fe_2O_3) is formed topochemically. In 1 N NaOH at 70°C, β - FeOOH is converted into α - FeOOH through- (Chemistry--Physical, TT, v. 7, no. 9) (over)

62-10363

I. Feitknecht, W.

Office of Technical Services

The Mechanism of the Decomposition of Wustite
 Fe_{1-x}O Below 570°C, by A. Hoffmann.

GERMAN, per, Z fuer Elektrochemie, Vol LXIII,
No 2, 1959, pp 207-213.

BISI 2766

Sci - Chem

204,710

Jul 62

list 139

On the Relation Between Deposition Conditions and
Growth Form in Electrocrystallization of Copper, by
K. Seiter, H. Fischer, 28 pp.

GERMAN, per, Z. für Elektrochemie, Vol LXIII, No 2,
1959, pp 249-257.

SLA 60-16810

Sci

Apr 62

191, 343

Vol IV, No 6

Relationship Between Precipitation Conditions and
Form of Growth During Electrocrystallisation of
Copper, by H. Seiter, H. Fischer.

GERMAN, per, Z. Elektrochem., Vol 63, No 2, 1959
pp 249-257.

CRL/D.669

sci/ chem
aug 69

389,662

The Nature of the Passive Layers on Thin Nickel
Films, by H. Pfisterer, A. Politycki, E.
Fuchs, 7 pp.

GERMAN, per, Z fuer Elektrochemie,
Vol LXIII, No 2, 1959, pp 257-261.

MIS-73MAG
AT&T/921-CJ

Szci
Vol IV, No 7
Apr 62

193, 846

The Electrical Conductivity of Oxides, by W.
Noddack, H. Walch, 19 pp.

GERMAN, per, Z Electrochem, Vol LXIII, 1959,
pp 269-274.

AEC Tr-4369

Sci - Chem
Apr 61

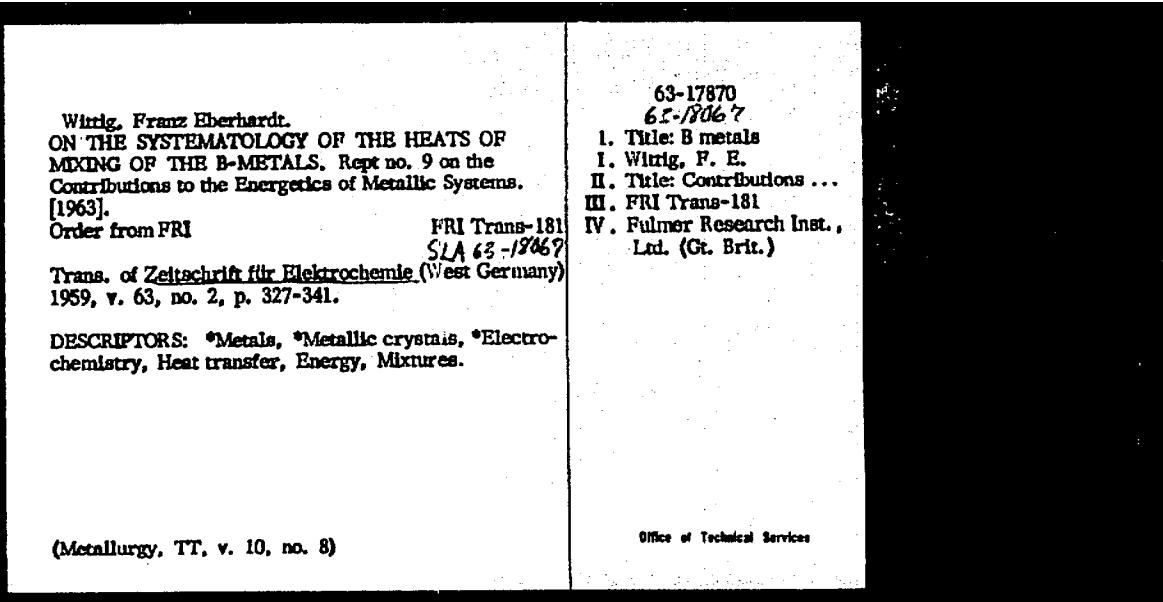
149,555

CEA-tr-A-715 (Rpt: UNCLASSIFIED)
ETUDE DES PROPRIÉTÉS ÉCHANGEUSES
D'IONS DES COMPOSÉS MINÉRAUX DE
L'ÉTAIN ET DU ZIRCONIUM À L'AIDE DES
ISOTOPES TRACEURS. (Study of the Ion
Exchange Properties of Mineral Compounds of
Tin and Zirconium Using Isotope Tracers).
E. Merz. Translated into French from Z. Elek-
trochem. 63, 288-92(1959). 16p. 12/15/60.
Nonproject.

NSA

C

Germann



The Behavior of High Polymers Towards Direct Current, by H. U. Herwig, E. Jenckel, 23 p.

GERMAN, per, Zeit Elektrochem, 1959, Vol LXIII,
No 3, pp 360-373.

AT&T-42L330

Sci
Mar 60
Vol 2, No 11

109,549

The Effect of Stearic Acid Coatings on the Volta
Potential of Gold, by G. Radlein, H M. Honrath.

UNCLASSIFIED

GERMAN, per, Z fuer Elektrochemie, Vol LXIII, No 3,
1959, pp 397-399. 9676929

Navy 2604/NRL # 802

Sci - Chem
Aug 60

122,430

61-12985

Will, F. G.
THE DYNAMIC CHARACTERISTICS OF POTENTIO-
STATIC REGULATOR CIRCUITS. [1961] 17p.
ATS-01N49G
Order from ATS \$19.95

Trans. of Zeitschrift für Elektrochemie (West
Germany) 1959, v. 63, no. 4, p. 484-491.

(Chemistry--Physical, TT, v. 5, no. 10)

1. Electrochemistry--
Instrumentation
 2. Potentiometers--Circuits
 3. Title: Potentiostatic
regulators
- I. Will, F. G.
 - II. ATS-01N49G
 - III. Associated Technical
Service, Inc., East
Orange, N. J.

158894

Office of Technical Services

State of Association of Dissolved Organometallic Compounds of the II., III. and IV. groups of the Periodic System of the Elements, by Walter Strohmeier, Karlheinz Humpfner, Karlheinz Miltemberger, F.

Seifert, 6 pp.
GERMAN, per Zeitschrift fur Elektrochemie,
Vol 63, No 4, 1959, pp 537-539.
SLA TT-64-30941

336,225

Sci
Aug 67

The Effect of Medium-Point Electrons on Some Metal
Oxides, by C. V. Koch, O. Glensser.
GERMAN, per, Z. für Elektrochemie, Vol LXIII, No 5,
1959, pp. 557-563.
•AEC

Sci-Phys
Jan 65

The Electrolytic Conductivity of
Dissolved Organometallic Compounds as
A Function of the Electron Acceptor
Strength of the Metal and the Electron
Donor Strength and Dielectric Constant
of the Solvent, by Walter Strobmeier,
Friedrich Seifert, 19 pp.
GERMAN, per, Zeitschrift fur Elektrochimie,
Vol 63, No 6, 1959, pp 603-606.
SIA TX-64-30985

Aug 67
Sci

336,226

Observations on the Effect of Surface Diffusion in
the ^b Growth of Potassium Crystals From Super-
Saturated Vapour, by W.Dittmar, K. Neumann,

GERMAN, per, Z Elektrochemie, Vol LXIII, 1959,
pp 737-741.

RAE 977

Sci - Chem

200, 902

Jun 62

Decarburization and Denitriding of Iron-Silicon
Alloys, by J. D. Fast,

GERMANY, per, Z Elektrochimie, Vol LXIII, No 7,
1959, pp 65 765-772.

BIBI 2844

Sci - M/M
Aug 63

343, 159

Title Unknown, by W. Schottky.
GERMAN, per, Zeit fur Elektrochemie,
Vol LXIII, 1959, pp 784-788.
*AEC Tr 2337

Sci-Elect /Misc
Feb 66

Check ^{AEC}
Before Releasing

Redox Processes on Germanium Electrodes, by F. Beck,
H. GERISCHER.

GERMAN, per, Z. fuer Elektrochemie, Vol LXIII,
1959, pp 943-950.

Language Sv Bu
JLG 60-16230

Sci - Chem

Oct 60

62-10119

34/54/1655-129,639

63-12926

Cordes, H. and Rottger, H.

A CONTRIBUTION TO THE ELECTRICAL CONDUCTIVITY MECHANISM OF MELTS OF METALLO-ORGANIC COMPLEX COMPOUNDS AND THEIR SOLUTIONS WITH ASSOCIATING SOLVENTS. [1962] 19p.
Order from K-H \$23.75 K-H 9820

Trans. of Zeitschrift für Elektrochemie (West Germany) 1959, v. 63, p. 1030-1037.

DESCRIPTORS: *Electrical conductance, Melting,
*Metalorganic compounds, Solutions, Solvents, Complex compounds.

- I. Cordes, H.
- II. Rottger, H.
- III. K-H-9820
- IV. Kresge-Hooker Science Library Associates, Detroit, Mich.

(Chemistry--Physical, TT, v. 9, no. 10)

Office of Technical Services

Hertz, H. G. and Spakhoff, W.
ON THE CHEMICAL SHIFT OF THE PROTON RES-
ONANCES OF WATER IN ELECTROLYTE SOLU-
TIONS. [1963, 55]p. 48 refs.
Order from SLA \$5.60

63-18091

63-18091
I. Hertz, H. G.
II. Spakhoff, W.

Trans. of *Zeitschrift für Elektrochemie* (West
Germany) 1959, v. 63, no. 9/10, p. 1096-1110.

DESCRIPTORS: *Electrolytes, Solutions, Water,
*Chemical bonds, *Protons, *Nuclear resonance,
*Resonance absorption.

The inclusion of a molecule in a hydrogen bridge bond
entails a reduction of the screening of the protons
located in the polar group. This rule is corroborated
by a compilation of the data for systems containing
hydrogen bridge bonds obtained by the NMR-method.
It is of interest to determine whether this rule is also
(Chemistry--Physical, TT, v. 10, no. 8) (over)

Office of Technical Services

Trans. of Z[eitschrift für] Elektrochemie (West Germany) 1959, v. 63, no. 9/10, p. 1120-1133.

DESCRIPTORS: *Infrared spectroscopy, *Organic compounds, *Thin films, Lattices, Ions

DESCRIPTORS: *Infrared spectroscopy, *Organic

(Chemistry--Physical, TT, v. 6, no. 3)

ce of Technical Services

175345

61-22652

APPROVED FOR RELEASE: Tuesday, July 01, 2003 CIA-RDP91-00929R000100330019-5

The Measurement of Rapid Reactions in Solution
Using the Rotating Disk Electrode, by W.
Vielstich, D. Jahn, 4 pp.

GERMAN, per, Z fuer Elektrochemie, Vol LXIV,
No 1, 1960, pp 43-44.

SLA 60-18794

202,24/2

scr

Jun 62

TT-65-13810 Field 7D

Berg, H.; Kapulla, H.
VELOCITY DETERMINATION OF FAST REACTIONS IN
SOLUTION FROM DIFFUSION CURRENT-TIME FUNC-
TIONS OF THE DROPPING MERCURY ELECTRODE.
5p. 6refs.

Order from SLA: \$1.10 as TT-65-13810

Trans. of Zeitschrift fuer Elektrochemie (West Germany)
v64 n1 p44-5 1960.

MR 668

Vetter, K. J. and Arnold, K.
CORROSION AND OXYGEN OVERPOTENTIAL OF
PASSIVE NICKEL IN SULFURIC ACID. [1962] 13p.
Order from ATS \$18.90 ATS-01P60G

Trans. of Z[eitschrift für] Elektrochem[ie] (West
Germany) 1960, v. 64, p. 244-251.

DESCRIPTORS: *Corrosion, *Oxygen, *Electric
potential, *Nickel, Passivity, Sulfuric acid,
Electrochemistry.

(Chemistry--Physical, TT, v. 8, no. 3)

62-17176

- I. Vetter, K. J.
- II. Arnold, K.
- III. ATS-01P60G
- IV. Associated Technical
Services, Inc., East
Orange, N. J.

Office of Technical Services

Investigation of Formation and Removal of
Hydrogen and Oxygen Deposits on Platinum
by a New Nonstationary Method, by
P. G. Hill, C. A. HARR.
GERMAN, per, Z fuer Elektrochemie, Vol LXIV,
1960, pp 258-269.
NASA TT F-9849

Sci-Chem
Apr 65
U.S. GOVERNMENT ONLY

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Investigation of Adsorption Phenomena in
Rhodium, Iridium, Palladium and Gold Using
the Potentiostatic Delta Method, by
F. G. Will, C. A. Marr.
GEWAN, per, Z. für Elektrochemie, Vol. LXIV,
1960, pp 270-275.
NASA TT F-9290

Sci-Chem
Apr 65
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Analysis of Long Period Interference in the Case
of Synthetic Fibres, by R. Bonart, R. ~~SAX~~ Wosemann.

GERMAN, per, Z fuer Elektrochemie, Vol LXIV, No 2,
1960, pp 314-321.

GB/163

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Eggenschwiller, Hermann and Jaenicke, Walther.
CATALYTIC ACTIVITY OF PHOTOGRAPHICALLY
DEVELOPED SILVER FOR THE REDUCTION OF
SILVER COMPLEXES. [1961] 10p. 10 refs.
Order from SLA \$1.10

61-18671

Trans. of Zeitschrift [fur] Elektrochemie (West
Germany) 1960, v. 64, no. 3, p. 391-394.

DESCRIPTORS: *Photographic emulsions, Processing,
*Silver, Catalysis, *Silver compounds, Complex com-
pounds, Reduction, Oxidation, Diffusion.

Photographic emulsions were developed for different
lengths of time and then fixed. Silver was liberated
from soluble citrate complexes on the silver threads
formed by a second development. The reduction speed
observed for layers developed only for a short time
(small nuclei) passes through a sharp maximum. This
(Materials--Photographic, TT, v. 6, no. 10) (over)

61-18671

I. Eggenschwiller, H.
II. Jaenicke, W.

1675

Office of Technical Services

Trans. of Z[eitschrift für] Elektrochem[ie] (West Germany) 1960, v. 64, no. 3, p. 407-413.

DESCRIPTORS: *Nickel, *Passivity, *Electric potential.

3700 N. H. 1-282 = 9211386

Learn to French

(Chemistry--Physical, TT, v. 6, no. 2)

62-17317

- I. Title: Flade potential
 - I. Arnold, K.
 - II. Vetter, K. J.
 - III. ATS-02P60C
 - IV. Associated Technical Services, Inc., East Orange, N. J.

ATS/980-GJ

Office of Technical Services

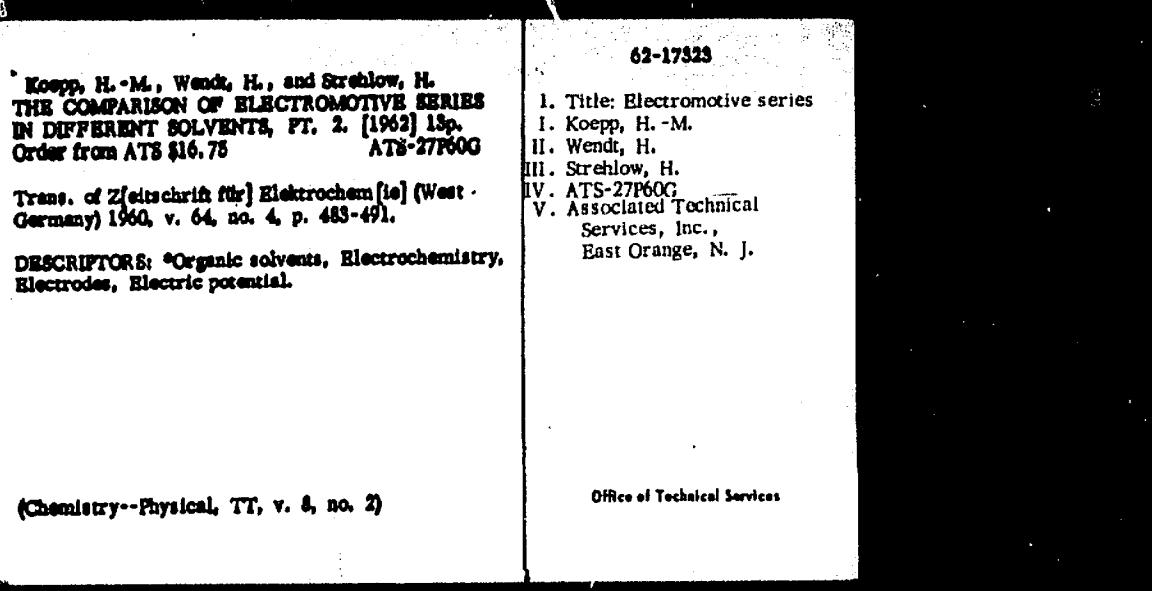
Electrode Reactions on Active, Passive, and
Transpassive Chromium, by H. Weidinger, E.
Lange, 16 pp.

GERMAN, per, Z. fuer Elektrochemie,
Vol LXIV, No 4, 1960, pp 466-477.

AT&T-16 M44G

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The System Smooth Pt/H₂O₂, O₂, H₂O With Special
Reference to Electrode Pretreatment, by J. Giner.
GERMAN, per, Zeitschrift fuer Elektrochemie,
Vol 64, 1960, pp 491-500.

NTC-71-16251-07D

Nasa TT F 10,001 940

Jan 72

Examination of the Reaction Zone of Detonations
in Knallgas, by T. Just,
GERMAN, per, Zeitschrift fuer Elektrochemie,
Vol 64, 1960, pp 501-513.
ntc-71-15634-19D

Feb 72

The PH-Function of the Fluorescence of
Naphthalene Derivatives, by Th. Foerster, 9 pp.
GERMAN, per, Z fuer Elektrochem., Vol LIV, 1930,
pp 531-555.
AEC-ANL-Ty-113

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Aug 65

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Hoffmann, E. G.
MOLECULAR SPECTROSCOPIC INVESTIGATIONS ON
ORGANO-ALUMINUM COMPOUNDS. IV. ON THE
SPECTROSCOPIC IDENTIFICATION OF THE ASSO-
CIATION OF COMPOUNDS OF THE TYPE ALR_3 AND
 ALR_2Cl . [1962] 28p.
Order from K-H \$32.00

K-H-10486

Trans. of Zeitschrift für Elektrochemie (West
Germany) 1960, v. 64, no. 3, p. 616-631.

DESCRIPTORS: *Molecular spectroscopy, Analysis,
*Metalorganic compounds, Spectroscopy, *Aluminum
compounds, Identification.

(Chemistry--Physical, TT, v. 9, no. 10)

63-12924

I. Hoffmann, E. G.
II. K-H-10486
III. Title: Spectroscopic ...
IV. Kresge-Hooker Science
Library Associates,
Detroit, Mich.

Office of Technical Services

Infrared Investigations of Isotopic Nitrogen Compounds, Part I. The Location of the Valence Frequency of the -N-N Double Bond, by R. Kubler, W. Luttke, et al, 17 pp.

GERMAN, per, Z. fuer Elektrochemie, Vol. LXIV, 1960, p 650. 9066981

ARC Tr-5283

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Sci - Phys
Oct 62

Excess Potential and Kinetics of Tl³⁺ /Tl
Oxidation-Reduction Electrode, by K. J.
Vetter, G. Thiemke, 17pp.
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Vol 64, No 6, 1960, pp 805-812.
CFSTI TT-64-18554.

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Sci - Chemistry
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On the Photochemistry of Substitution and
Isomerisation Reactions of Complex Ions of
Trivalent Chromium, by H. F. Schlafer.

GERMAN, per, Zeit fur Elektrochemie, Vol LXIV,
No 7, 1960, pp 887-890.

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T.314

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Sci - Phys
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<p>Wilk, M. SEMICONDUCTOR PROPERTIES OF AROMATIC HYDROCARBONS. [1960] 11p. Order from ATS \$14.60 ATS-25N48G Trans. of Z[eitschrift f[ur] Elektrochemie (West Germany) 1960, v. 64, no. 7, p. 930-936.</p> <p>151575</p> <p>(Physics--Solid State, TT, v. 5, no. 8)</p>	<p>61-12800</p> <p>1. Hydrocarbons--Electrical properties 2. Semiconductors--Materials I. Wilk, M. II. ATS-25N48G III. Associated Technical Services, Inc. East Orange, N. J.</p> <p>151575/AD 5631 ATS/755-QJ</p> <p>Office of Technical Services</p>	
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Selectivity and Typical Reaction Mechanisms in
Radiation Chemistry, by G. O. Schenck, 72 pp.

GERMAN, per, Z fuer Elektrochemie, Vol LXIV,
1960, pp 997-1011. 9080-5

AKRE, Harwell
MP Tr-683
SLA TT-64-10367(74)

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Sci - Nuc Phys
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Reactions of Cyclohexane and Other Hydrocarbons
Under the Influence of ^{60}Co - - Radiation, by
D. Hummel, H. Barzynski, 16 pp.

GERMAN, per, Z n fuer Elektrochemie, Vol LXIV,
Nov 1960, pp 1015-1019. 7080640

AERE, Harwell
MP Tr-679

Sci - Nuc Phys
Sep 61

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Fission Product Diffusion and Self Diffusion
in High Temperature Nuclear Fuels,
by R. Lindner, H. Matske, IX et al, 11 pp.

EGERMAN, per, Z. elektrochem, Vol LXIV,
1960, pp 1042-1045.

ABC-Tr-5206
CEA Tr-A-1172 Rev TR

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Sci - Fuels,
Nuc Phys
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Neutron Activation Analysis in Strong Neutron
Absorbers, by F. Baumgartner, /PP.

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Vol LXIV, No 8/9, 1960, pp 1077-1080. 9215969

ACSL Tr 1427

Sci - Chem
Jan 64

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Neutron Activation, by W. Schulze, 7 pp.

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Vol LXIV, No 8/9, 1960, pp 1083-1086. 9215987

ACSL Tr 1428

Sci ~ Chem
Jan 64

248, 805

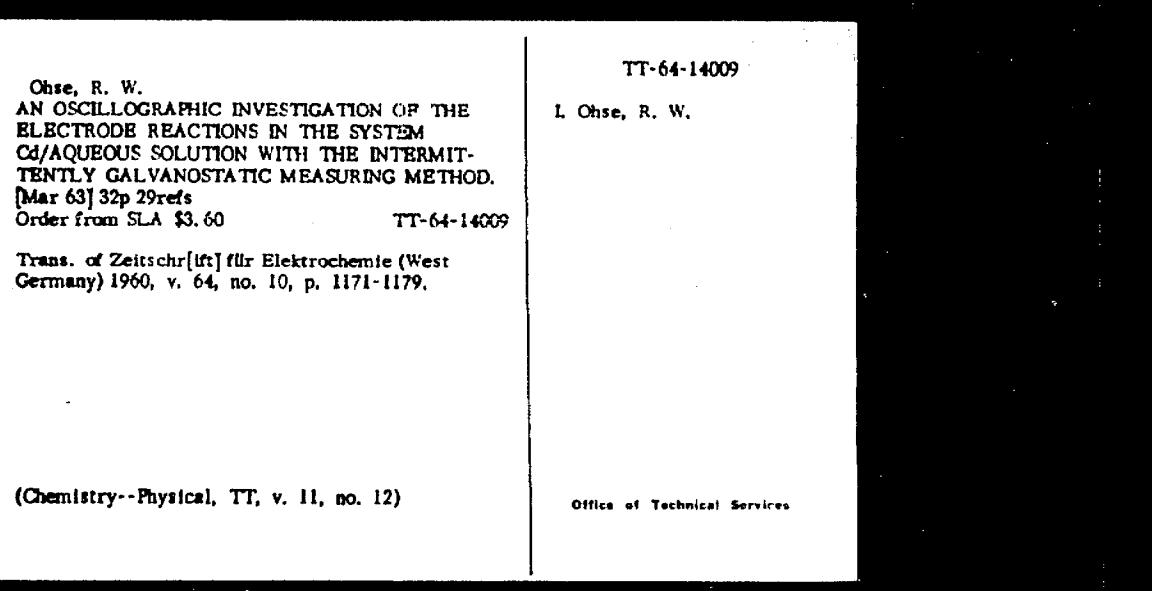
Counting of Radioisotopes of Metallic Elements in
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Herrmann, 14 pp.

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p 1092.

AEC T-4444

Sci - Phys
May 61

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Infrared Spectroscopic Study of Isotopic
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Spectrum of Benzamide, by S. Weckherlin,
W. Luttke, 1 $\frac{1}{4}$ pp.

GERMAN, per, Z. Elektrochemie, Vol LXIV,
1960, pp 1228-1234. 9067005

ABC Tr-5277

Sci - Chem
Oct 62

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The Problem of Excess Oxygen in Nickel Oxide,
by Hartmut Gossel, 14 pp.
GERMAN, per, Z fuer Elektrochemie, Vol LXV, 1961,
pp 98-102. 9226026
AEC-UCRL-Tr-1074 (L)

Sci-Chem
Dec 64

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Stability and Spread of Flames, by H. G. Wagner.

GERMAN, per, Z. ^{Wiss} Elektrochemie, Vol LIV, No 3,
1961, pp 290-295.

OF 7322
SER 4767

Soc. - Chem

Aug 63

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The Mechanism of Chemisorption of Gases on
Oxides, by Karl Hauffe, 19 pp.

GERMAN, per, Z. Elektrochem., Vol LXV, 1961.
pp 321-327.

AEC UCRL-Tr 831(L)
CEA A-1157
Rev Tr
212, 661

Sci - Chem

Sep 62

Measurements in the Reaction Zone of
Hydrocarbon-Oxygen Detonations, by T. Just
GERMAN, per, Zeitschrift fuer Elektrochemie,
Vol 65, 1961, pp 411-416
NTC 71-15274-07D

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TT-64-12080

Janicke, W[alther] and Lorenz, B.
HALFTONE PROCESSES AND THE CHARACTERISTIC
CURVE IN ELECTROPHOTOGRAPHY. [1963] 21p
Order from ATS \$22.50 ATS-65Q72G

Trans. of z[eitschrift für] Elektrochemie [ie] (West
Germany) 1961, v. 65, no. 6, p. 493-503.

DESCRIPTORS: *Electrophotography, Photographic
processors.

I. Janicke, W.
II. Lorenz, B.
III. ATS-65Q72G
IV. Associated Technical
Services, Inc.,
East Orange, N. J.

(Materials--Photographic, TT, v. 11, no. 4)

Office of Technical Services

Beck, F. and Gerischer, H.
ELECTROCHEMICAL VIEWPOINTS CONCERNING
CATALYTIC HYDROGENATION AT PLATINUM CON-
TACTS IN BUFFERED SOLUTIONS. 25 Feb 63 [39]p.
33 refs.
Order from SLA \$3.60

63-16404

Trans. of Z[eitschrift] für Elektrochemie (West
Germany) 1961, v. 65, p. 504-517.

DESCRIPTORS: Electrochemistry, *Cyclohexanes,
*Styrenes, Allyl radicals, Butenyl radicals, *Alcohols,
Methyl radicals, Vinyl radicals, *Carbinols, Ethyl
radicals, *Acetates, *Acrylic acid esters, Ethers,
*Acetones, Mesityl radicals, Oxides, Phenyl radicals,
*Acetylenes, *Nitrobenzenes, *Hydrogenation, *Plati-
num electrodes, Catalysts, Polarization, Ions, Chlo-
rides, Hydrogen ion concentration, Buffers, Reaction
kinetics.

(Chemistry--Physical, TT, v. 10, no. 7) (over)

63-16404

I. Beck, F.
II. Gerischer, H.

Office of Technical Services

Theory of Ageing of Precipitates by Re-Solution,
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GERMAN, per. Z. Elektrochemie, Vol 65, No 7/8,
1961, pp 581-591.
BISI 8845

Jun 71

The Hindered Energy Exchange Between Solid Materials and Absorbed Gas Molecules for Ortho-and Para-Hydrogen, by K. Schafer, S. Stots.

GERMAN, per, Z. Elektrochem., Vol 65, No 7/8,
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Chem Trans Sv 3063

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Sci - Chemistry
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